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7:45 a.m. For Portland & Intermediate points 10:30 a.m.
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SEASIDE DIVISION.

5:00 p.m. Lv. Astoria. Ar. 7:40 4:30
5:25 11:55 Ar. Warrenton. Lv. 7:30 1:30
5:50 12:13 Lv. Warrenton. Ar. 6:52 1:18
6:30 1:00 Ar. Seaside. Lv. 6:18 2:30

SPECIAL SEASIDE SUNDAY TRAIN
Leaves Astoria at 8:20 a. m.; arrives at Seaside 9:45 a. m.

Passengers may return on any train shown on schedule on same date.

ALL TRAINS to and from Seaside run of Flavel and Hammond via Warrenton.

All trains make close connections at Goble with all Northern Pacific trains to and from the east or bound points.

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A marked innovation in the method of handling wheat in elevators and large flouring mills is about to be instituted in Seattle, which will be the first place in the West where the latest modern improvements are to be utilized. S. T. Kelsey, Jr., one of the directors of the company operating the Peerless flouring mill, to be erected in that city within the next few months, is now in the East arranging for the machinery of the plant, which will include two or three of the fire-proof steel grain elevators manufactured by the Steel Storage and Elevator Construction Company, of Buffalo, N. Y.

This special machinery will consist of an elevator tower and the air-tight cylindrical tanks. In handling grain in these appliances it is emptied from the sacks at the railroad track into hoppers, and conveyed thence by air currents through large pipes to the storage tanks. On the way the wheat is blown against sieves, and the air passing through it cleanses and dries it so that by the time it reaches the tanks it is thoroughly clean, and as these receiving vaults are air-tight it may remain there an indefinite time without sweating or being otherwise injured. When the mill desires to use the grain it is blown back to the mill hoppers or bins as desired, in a similar manner to the first movement.

This method of taking care of grain does away with the frequent handling necessary to preserve the quality in the ordinary methods of storing it in wooden bins, and also renders insuring unnecessary, as the tanks are absolutely fireproof. Another advantage is that the mill equipped with this feature may engage in the commercial handling of grain, without extra effort, as the same method of blowing into the ship is used, one of the pipes being placed into each hatch of the vessel, and the grain moved as rapidly as the immense suction of the air can take it.

These tanks are being adopted by many of the large institutions of the East, and are found to be such an improvement that their installation is expected to become general. The Canadian Pacific Railway company has recently built steel elevators of this type at Fort Williams, Canada, twenty-four of them having a capacity of 2,000,000 bushels.

Mr. Kelsey is in Minneapolis at present looking over the large milling plants and arranging the details of the construction of the Seattle establishment. Before he returns he will examine plants in Pittsburg, New York and Boston. He writes from Minneapolis that a great deal of interest is being manifested there in the progress being made by Seattle and other parts of Washington in the flouring mill industry, and that they are beginning to realize that this coast is becoming a strong competitor to the Flour State for business, not only across the Pacific, which position it already holds, but also in the states between here and Minnesota.

Contracts for the construction work of the Peerless mill are expected to be let within the next six weeks. It is the intention to at first fill in the entire block of ground north of Battery street, between Elliott and Railroad avenues, and the buildings and elevators will then be constructed on masonry piers supported by heavy clusters of heavy piling driven through the filled ground. The mill building will be five stories in height. The capacity will be 1,900 barrels a day to start with, but the mill will be so arranged that this may be increased at will to 3,000 barrels a day, which would give it a larger output than that of any other mill now on the Pacific coast. It is expected that the mill will be in operation by next summer.

AMERICAN NURSES FOR TRANSVAAL

THE MILL'S TRAINING SCHOOL

Class of Young Men Graduates Going to South Africa—A Successful Innovation in Caring for the Sick—Equal to Women.

New York Tribune.

A red brick building on the Bellevue hospital grounds, fronting in Twenty-sixth street, near the department of charities pier, is now rapidly rising in honor and in public interest. It will form perhaps the closest American tie with the South African war in the weeks to come. From the door of the Mills training school for male nurses there will issue a week from tomorrow a class of sixteen graduates of the institution, all bound for the South African field. They will sail for the Transvaal from England aboard the Maine, the hospital ship now being fitted out by American women abroad, headed by Lady Randolph Churchill. All are young, some served in the Spanish-American war, and all have had broad experience in private nursing these last two or three years.

Of an interest that is altogether unusual is the departure of these men. Two decades ago, had a hurried summons been sent across seas for a band of male nurses, highly trained, well equipped with medical knowledge, skilful as women, it could not have been complied with. The male nurse on a par with the trained female nurse is a modern individual. This institution was the first training school in America for men in the profession of nursing. It is still the only school of any size, though several others, aware of this success, have recently been started. Eleven years ago—the first days of 1888—saw the Mills training school for male nurses put into operation, founded and endowed by D. O. Mills. Since that day it has built up what is practically—at least if the scientific end of it is considered—a new profession.

Few probably are aware that there are nowadays no orphans in Bellevue, the city's charity sickrooms. The men that went by this title always seemed an inseparable part of the public institutions. They were traditional, and no improvement seemed possible. Yet in a short eleven years a hundred or so graduates have been turned out, finding in all save a few instances a ready market for their professional services, steady employment at \$5 a day. The classes of this school were small the first few years, but they have grown until there are now 82 students taking the course in this building—a two years' course, to which men can be admitted the first of each month, and which graduates two classes a year.

So valuable are these young men in service, even in their first days of tutelage, that the male wards of Bellevue, both medical and surgical, have been thrown open to them. Some two years ago the orderly system of the hospital was finally done away with and the student nurses were put in the orderlies' places, with the entire care of these wards as a part and portion of the nursing course. It is not far from being the major part of the course, indeed, for it embraces all that is practical. The nursing students have their own lectures, quizzes and theoretical researches besides, but it is this varied, difficult, energy and judgment—compelling experience in these Bellevue wards that goes furthest toward fitting them to take up nursing as a genuine profession.

Such has been the training of the men who are about to go out to the war in South Africa. The stuff they are made of is evidenced by the eagerness with which they volunteered, consenting to leave good private posts here. What is practically the pick of the graduates has been secured for this Transvaal campaign, though many who will be left behind would prove themselves quite as valuable.

Already the Mills training school men have made themselves conspicuous at the front. They were eagerly seized upon in the Spanish-American war, all the graduates available being taken on. Six were nurses on the Solace, five at Fort Sumner, N. H., with the Spanish prisoners. These latter went to Spain afterward with the sick men and proved mightily efficient. There were

some of the Mills school men on the Helief, one on the Topeka, one on the Oregon, one in Porto Rico and two in the Philippines. It is not too much to say that one and all did splendid work in a quiet way throughout the entire war.

The training school building is spacious and full of comfort. On the lower floor is an office, the directors' room, a private parlor for the superintendent, a lecture room and the dining hall. Above are two floors of small bedrooms, each student having his room, save in a few cases on a floor above these, where there are some larger rooms holding two beds each. There is much simplicity, but, altogether, the college idea has been realized.

The men who now apply to take this course, with the prospect in their minds of becoming professional nurses, are nearly all young men. From nineteen to thirty years are the limits of age preferred. Few of the students approach thirty, and there are hardly half a dozen older. About five hundred men file applications in a year, all being considered, and a selection of a few more than two hundred being now annually made from the number. Any one whose papers please the managers can get in as a probationer. The period of probation lasts one month. At the end of that time those approved of become pupil nurses, receiving for their first year \$10 a month, for their second year \$12 a month. They go at once in the wards on duty, serving twelve hours a day—from 8 a. m. to 5 p. m., or 5 p. m. to 8 a. m. In the second year the most competent are selected as head nurses of the various wards. It should be said here that one male ward of Bellevue hospital is set apart for female nurses of the nearby training school for women, that these may not lack experience in caring for sick men.

On duty the student nurses wear a uniform of white duck jacket and trousers and rubber heeled shoes. In addition to his nursing each man hears two lectures a week. These are given by four instructors, three of whom are physicians and one a teacher of massage and physical culture. No attempt is made to teach medicine. In fact, the plan is precisely the reverse. The doctors that lecture instruct upon conditions of the body and its general construction and the giving of remedies; they discuss wounds and measures to be taken, the courses being based on the knowledge a nurse actually needs to supplement a physician's efforts.

The majority of the young fellows now in this school come from the country, and are sons of farmers. They make admirable nurses and develop high intelligence. Experts claim that the best nursing of such men is equal to that of the best women nurses from the schools.

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